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Supplemental Health and Safety Plan
WELL ABANDONMENT AND REPLACEMENT PROGRAM ACTIVITIES
DURING MAY, 1997-SEPTEMBER 1998
(Supplement to the Health and Safety Plan for the 1996 WARP, April 1996, RF/ER-96-0016)

Introduction.
This supplemental Health and Safety Plan (HASP) covers all activities to be performed as part of the 1997 Well Abandonment and Replacement Program (WARP). The HASP for the 1996 WARP remains the main HASP, and shall be followed except where this supplemental HASP supercedes the 1996 document.

The WARP will be conducted from May 1997 through September 1998. Activities will take place in the Industrial Area (IA), Protected Area (PA), several Individual Hazardous Substance Sites (IHSSs), and in other locations across the Rocky Flats Environmental Technology Site (RFETS).

The objective of the WARP is to identify wells that are no longer useful to the Groundwater Monitoring Program (GMP) and to abandon or replace them according to accepted procedures. In some cases, wells are not functioning properly and must be replaced. These nonviable wells typically have problems with their construction. Wells may also be abandoned because they monitor perennially dry locations, obstruct remediation and closure activities, or because they have served their purpose and are no longer needed. In addition to abandoning and replacing wells, a number of new monitoring wells will be installed as part of the 1997 WARP.

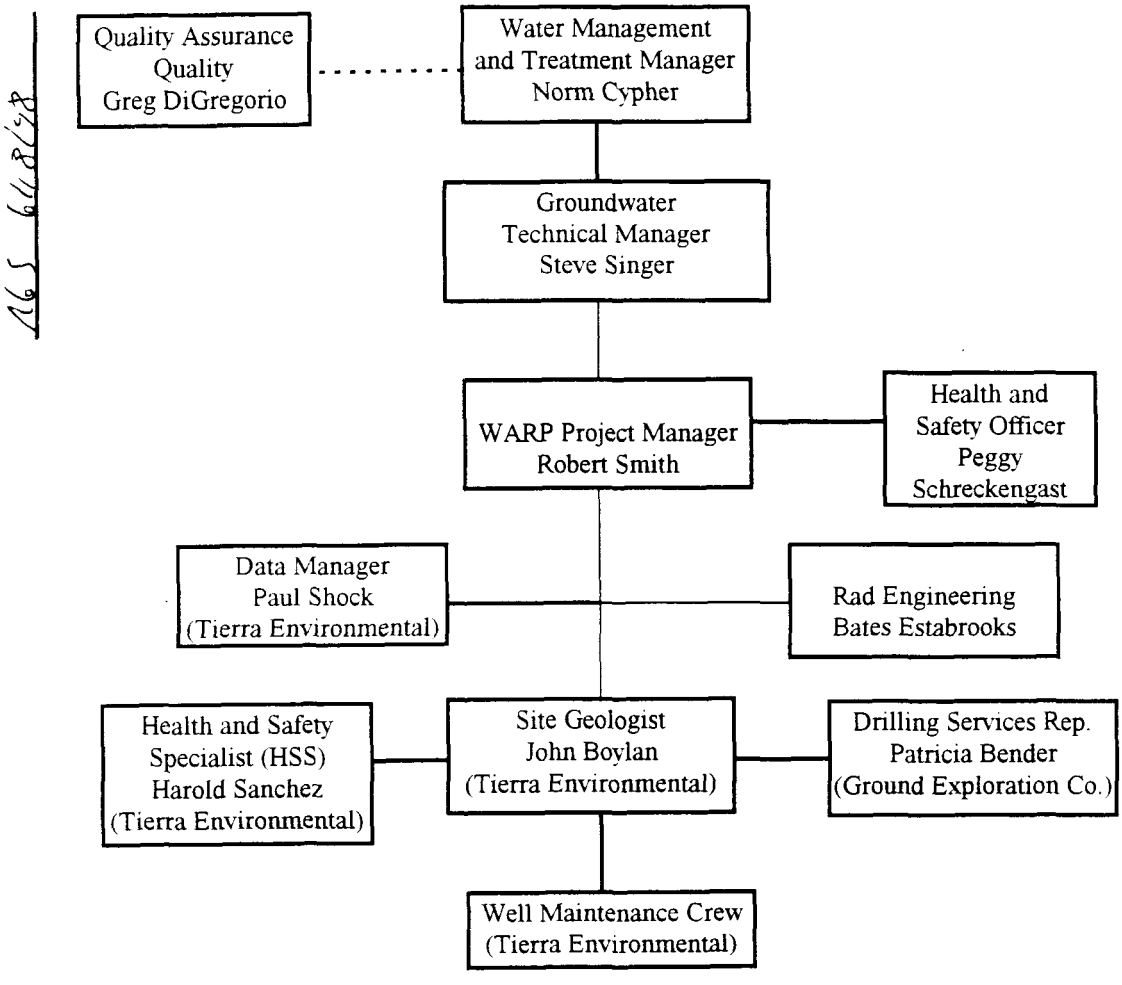
This supplemental HASP is only for work to be conducted as part of the 1997 WARP, as identified and discussed in the WARP Work Plan (RF/RMRS-97-003, May 1997) and the Addendum to that Work Plan. All 1997 WARP activities will be conducted in accordance with this supplemental HASP and the HASP for the 1996 WARP, where the 1996 HASP is not superceded by this supplemental HASP. All activities described in this supplemental HASP will be performed by or at the direction of Environmental Restoration Projects personnel. **Project contacts and emergency phone numbers are listed in Table 1.**

Description of Planned Intrusive Activities.
The 1997 WARP is scheduled to reduce the overall size of the monitoring well network. Almost 10 percent of the active wells listed in the RFETS master well list, for a total of up to 75 wells and piezometers, are scheduled for elimination as part of this project. Four replacement RFCA wells will be installed, and several other new wells will be installed for characterization or for plume excursion monitoring associated with the draft Integrated Monitoring Plan (IMP). Well abandonments will be performed according to the procedures specified in Operating Procedure (OP) GT.11, Plugging and Abandonment of Wells. Well installation will be performed according to procedures specified in OP GT.06, Monitoring Well and Piezometer Installation. In addition, several temporary piezometers (wellpoints) will be installed using a Geoprobe that will be operated according to procedures specified in OP GT. 39, Push Subsurface Soil Sample. Other Operating Procedures in the Geotechnical (GT), Groundwater (GW), and Field Operations (FO) areas also will be complied with, as they also apply to activities that will be performed in association with the WARP.

Most wells are scheduled to be abandoned in-place. This activity will generate very little waste, as only the above-ground protective casing, well casing, and concrete well pad, together with up to 5 feet of subsurface well casing, will be removed. No drilling will take place, and subsurface soils will be minimally disturbed. Other wells will be abandoned by pulling or overdrilling the casing or through destruction of the casing. These activities will result in the generation of varying amounts of wastes, which will include well construction materials, annular materials, and subsurface soils.

Project Organization.
The following organization chart shows the project responsibilities.

FY97 WELL ABANDONMENT AND REPLACEMENT PROGRAM
PROJECT ORGANIZATION



Personnel.
Personnel monitoring and decontamination procedures as described in the 1996 WARP HASP remain in effect.

Table 1. Emergency Contact Telephone and Pager Numbers.

Fire	x2911	Poison Center	629-1123
Ambulance	x2911		
Police	x2911		
Security	x2911		

Major routes to Emergency Medical Services (Building 122) are shown on Figure 1.

Access closest building to work site for nearest Telephone location.

Additional Project Telephone Numbers

Director, ER - John Law	x 4842/ dp 4564
H&S Manager - Ken Jenkins	x 5374/dp 7455
Project Manager - Rob Smith	x 7898/ dp 212-5653
Field Manager - John Boylan	x 5182
H&S Supervisor - Peggy Schrekengast	x 6790/ dp 3059/radio #3702
HSS - Harold K Sanchez	x 4953/ dp 1171/ radio # 3713
HAZMAT Emergency Response	x 2911
Occupational Health General Information	x 2594
Rad Engineering, Bates Estabrooks	x 3769/ dp 3209
RCT Formen Bldg 549 - Chip Sarwer (RCT Support)	x 2397/radio # 3271

Note: dp= digital page, which can be activated on RFETS by dialing extension 4000 and following the instructions.

Table 2. Task-Specific Hazards.

Location	Task Description	Potential Contaminants	PPE To Be Used
Wells 5074, 5174, 5274 (all SEPs); 5374, 5774 (both IA near IHSS 165); 5474, 5574, 5674 (all in/near IHSS 156.2); 5884, 5974, 6074, 6174, 6274, 6374 (all along Walnut Creek drainage); 6774 (BZ on Church Ditch); 1288 (IA near Bldg. 771); 1388(IA near Bldg. 779); 3786 (B-5); B201289, B303089, 11291 and 43492 (buffer zone).	Phase I and II wells to be abandoned in place. Subsurface soils will be minimally disturbed.	None.	Start in Level D. Air monitoring and/or soil conditions (wet, muddy) may indicate need to upgrade to Modified Level D,C,or B

Location	Task Description	Potential Contaminants	PPE To Be Used
Trenches area)	Wells to be installed with Geoprobe if feasible, otherwise with drilling rig.		and/or soil conditions (wet, muddy) may indicate need to upgrade to Modified Level D,C,or B
Geoprobe investigations along the northern edge of the Industrial Area	New wellpoints to be installed. Subsurface materials will be disturbed, but minimal waste will be generated.	These wellpoints will be located along roadways to the north and west of Building 771. Other wells in the immediate vicinity have produced groundwater variously contaminated with organics, metals, and anions. However, using a Geoprobe to install wellpoints minimizes the risk of coming into contact with contaminants.	Start in Level D. Air monitoring and/or soil conditions (wet, muddy) may indicate need to upgrade to Modified Level D,C,or B
Geoprobe investigations along the road adjacent to Ponds B-1, B-2, and B-3	New wellpoints to be installed. Subsurface materials will be disturbed, but minimal waste will be generated.	These wellpoints will be located between OUs 2 and 6. Other wells in the vicinity have produced groundwater variously contaminated with organics and metals. However, using a Geoprobe to install wellpoints minimizes the risk of coming into contact with contaminants.	Start in Level D. Air monitoring and/or soil conditions (wet, muddy) may indicate need to upgrade to Modified Level D,C,or B

Note: Data used to evaluate contamination hazards are from Tier 2 Ranking, and are thus very conservative.
SEPs: Solar Evaporation Ponds
IA: Industrial Area
BZ: Buffer Zone